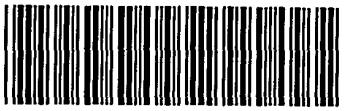

OIPE

#2

RAW SEQUENCE LISTING DATE: 01/17/2002
PATENT APPLICATION: US/10/027,859 TIME: 17:43:31

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Output Set: N:\CRF3\01172002\J027859.raw

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      1 <110> APPLICANT: Deneris, Evan S.
      2       Fyodoro, Dmitry V.
      3       Hendricks, Timothy J.
      4 <120> TITLE OF INVENTION: Reagents and Methods for the Screening of Compounds
      5       Useful in the Treatment of Neurological Diseases
      6 <130> FILE REFERENCE: CASE-04027
      7 <140> CURRENT APPLICATION NUMBER: 10/027,859
      8 <141> CURRENT FILING DATE: 2001-10-25
     10 <150> PRIOR APPLICATION NUMBER: US/09/435,335
     11 <151> PRIOR FILING DATE: 1999-11-05
     14 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/360,779
W--> 15 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-07-26
     16 <160> NUMBER OF SEQ ID NOS: 23
     17 <170> SOFTWARE: PatentIn Ver. 2.0
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 1752
     21 <212> TYPE: DNA
     22 <213> ORGANISM: Rattus norvegicus
     23 <220> FEATURE:
     24 <221> NAME/KEY: CDS
     25 <222> LOCATION: (112)..(1131)
     26 <400> SEQUENCE: 1
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     28       aacatcaagt gtattcatga accgtgagta tcttcatgta aacagttcta g atg gaa  117
     29                                                                 Met Glu
     30                                                                   1
     31       gac cca ggt ggc gct cct ctg ggg gag agg gtt cca gcc ccc cac ccc   165
     32       Asp Pro Gly Gly Ala Pro Leu Gly Glu Arg Val Pro Ala Pro His Pro
     33                 5                  10                  15
     34       cct cag ccc cat ccc ctc aca gct cac tcc tcc agt aca ccg gca ccg   213
     35       Pro Gln Pro His Pro Leu Thr Ala His Ser Ser Ser Thr Pro Ala Pro
     36            20                  25                  30
     37       gga tgg gct ggg atg cag ctc cag gac ccc ctc cct cct cac cac acc   261
     38       Gly Trp Ala Gly Met Gln Leu Gln Asp Pro Leu Pro Pro His His Thr
     39        35                  40                  45                  50
     40       ctg gct gcc cgc tcc cgc cag gcc ttg ccg gac ccg gcg gcg tct act   309
     41       Leu Ala Ala Arg Ser Arg Gln Ala Leu Pro Asp Pro Ala Ala Ser Thr
     42                       55                  60                  65
     43       ctt ccc tgt cac cca cag tca cca cgg gcg ggt atc ggc acc cca agc   357
     44       Leu Pro Cys His Pro Gln Ser Pro Arg Ala Gly Ile Gly Thr Pro Ser
     45                  70                  75                  80
     46       gca aag ctg acg tgc ccc ccc gtg cgg tcc ccc cca tct ccc acc gcc   405
     47       Ala Lys Leu Thr Cys Pro Pro Val Arg Ser Pro Pro Ser Pro Thr Ala
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ENTERED

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cag tcc ccg gca gcg atg aga cag agc ggc acc tcc cag ccc ctg ctg   453
Gln Ser Pro Ala Ala Met Arg Gln Ser Gly Thr Ser Gln Pro Leu Leu
    100                 105                 110
atc aac atg tac cta cca gat ccc gtc gga gat ggt ctt ttt aag gaa   501
Ile Asn Met Tyr Leu Pro Asp Pro Val Gly Asp Gly Leu Phe Lys Glu
115                 120                 125                 130
ggg aag agc ccg agc tgg ggg ccg ctg agc cct gcg gta cag aaa ggc   549
Gly Lys Ser Pro Ser Trp Gly Pro Leu Ser Pro Ala Val Gln Lys Gly
                135                 140                 145
agc ggg cag atc cag ttg tgg cag ttt cta ctg gag ctg ctg gca gac   597
Ser Gly Gln Ile Gln Leu Trp Gln Phe Leu Leu Glu Leu Leu Ala Asp
            150                 155                 160
cgc gcg aac gcc ggc tgc atc gcg tgg gag ggc ggc cac ggc gag ttc   645
Arg Ala Asn Ala Gly Cys Ile Ala Trp Glu Gly Gly His Gly Glu Phe
        165                 170                 175
aag ctc acc gac ccc gac gag gtg gcg cga cgc tgg ggc gag cgc aag   693
Lys Leu Thr Asp Pro Asp Glu Val Ala Arg Arg Trp Gly Glu Arg Lys
    180                 185                 190
agc aag ccc aat atg aac tac gac aag cta agt cga gca ctg cgc tac   741
Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser Arg Ala Leu Arg Tyr
195                 200                 205                 210
tac tac gac aaa aac atc atg agc aag gtg cac ggc aag cgc tac gcc   789
Tyr Tyr Asp Lys Asn Ile Met Ser Lys Val His Gly Lys Arg Tyr Ala
                215                 220                 225
tac cgc ttt gac ttc cag ggc ctg gca cag gct tgc cag cca cca ccc   837
Tyr Arg Phe Asp Phe Gln Gly Leu Ala Gln Ala Cys Gln Pro Pro Pro
            230                 235                 240
gcg cac gcc cac gcc gcc gct gcc gcc gcc gca gcg gca gcc gcc gcc   885
Ala His Ala His Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
        245                 250                 255
cag gat ggc gca ctt tac aag ctc ccg gct ggt ctg gct cca ctg ccc   933
Gln Asp Gly Ala Leu Tyr Lys Leu Pro Ala Gly Leu Ala Pro Leu Pro
    260                 265                 270
ttc ccc ggc ctc tcc aaa ctc aac ctt atg gca gcc tcg gcc ggc gtg   981
Phe Pro Gly Leu Ser Lys Leu Asn Leu Met Ala Ala Ser Ala Gly Val
275                 280                 285                 290
gcg ccc gct ggc ttc tct tac tgg cct ggt ccc aac gcc acc gcc gct   1029
Ala Pro Ala Gly Phe Ser Tyr Trp Pro Gly Pro Asn Ala Thr Ala Ala
                295                 300                 305
gcc gcc gcc acc gct gcg ctc tac cca acc ccg ggc ttg cag ccc cct   1077
Ala Ala Ala Thr Ala Ala Leu Tyr Pro Thr Pro Gly Leu Gln Pro Pro
            310                 315                 320
ccc ggg ccc ttt ggc gcg gtg gcc gcc gct tcg cac ttg ggg ggt cat   1125
Pro Gly Pro Phe Gly Ala Val Ala Ala Ala Ser His Leu Gly Gly His
        325                 330                 335
tat cac tagacgggac ggccgggtgc agtggggcct ctcccacaca gccagtgacc    1181
Tyr His
    340
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aatcccatcc tcatcctggg aggagccccg aagatttccc cgacgttcct ttaccacaga 1241
tttcgttgca gcagccgctc ccagcccagg gaagaaagga tgggaagcct ctgaggtctt 1301
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caaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1752

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<212> TYPE: PRT
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 2

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His Pro Pro Gln Pro His Pro Leu Thr Ala His Ser Ser Ser Thr Pro
             20                  25                  30
Ala Pro Gly Trp Ala Gly Met Gln Leu Gln Asp Pro Leu Pro Pro His
         35                  40                  45
His Thr Leu Ala Ala Arg Ser Arg Gln Ala Leu Pro Asp Pro Ala Ala
     50                  55                  60
Ser Thr Leu Pro Cys His Pro Gln Ser Pro Arg Ala Gly Ile Gly Thr
 65                  70                  75                  80
Pro Ser Ala Lys Leu Thr Cys Pro Pro Val Arg Ser Pro Pro Ser Pro
                 85                  90                  95
Thr Ala Gln Ser Pro Ala Ala Met Arg Gln Ser Gly Thr Ser Gln Pro
            100                 105                 110
Leu Leu Ile Asn Met Tyr Leu Pro Asp Pro Val Gly Asp Gly Leu Phe
        115                 120                 125
Lys Glu Gly Lys Ser Pro Ser Trp Gly Pro Leu Ser Pro Ala Val Gln
    130                 135                 140
Lys Gly Ser Gly Gln Ile Gln Leu Trp Gln Phe Leu Leu Glu Leu Leu
145                 150                 155                 160
Ala Asp Arg Ala Asn Ala Gly Cys Ile Ala Trp Glu Gly Gly His Gly
                165                 170                 175
Glu Phe Lys Leu Thr Asp Pro Asp Glu Val Ala Arg Arg Trp Gly Glu
            180                 185                 190
Arg Lys Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser Arg Ala Leu
        195                 200                 205
Arg Tyr Tyr Tyr Asp Lys Asn Ile Met Ser Lys Val His Gly Lys Arg
    210                 215                 220
Tyr Ala Tyr Arg Phe Asp Phe Gln Gly Leu Ala Gln Ala Cys Gln Pro
225                 230                 235                 240
Pro Pro Ala His Ala His Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
                245                 250                 255
Ala Ala Gln Asp Gly Ala Leu Tyr Lys Leu Pro Ala Gly Leu Ala Pro
            260                 265                 270
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147       Leu Pro Phe Pro Gly Leu Ser Lys Leu Asn Leu Met Ala Ala Ser Ala
148               275                 280                 285
149       Gly Val Ala Pro Ala Gly Phe Ser Tyr Trp Pro Gly Pro Asn Ala Thr
150           290                 295                 300
151       Ala Ala Ala Ala Ala Thr Ala Ala Leu Tyr Pro Thr Pro Gly Leu Gln
152       305                 310                 315                 320
153       Pro Pro Pro Gly Pro Phe Gly Ala Val Ala Ala Ala Ser His Leu Gly
154                       325                 330                 335
155       Gly His Tyr His
156                   340
158 <210> SEQ ID NO: 3
159 <211> LENGTH: 11
160 <212> TYPE: DNA
161 <213> ORGANISM: Polyomavirus enhancer
162 <400> SEQUENCE: 3
163       agcaggaagt g                                                    11
165 <210> SEQ ID NO: 4
166 <211> LENGTH: 11
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 4
170       agcaggaagt t                                                    11
172 <210> SEQ ID NO: 5
173 <211> LENGTH: 11
174 <212> TYPE: DNA
175 <213> ORGANISM: Mus musculus
176 <400> SEQUENCE: 5
177       agcgggaagt t                                                    11
179 <210> SEQ ID NO: 6
180 <211> LENGTH: 11
181 <212> TYPE: DNA
182 <213> ORGANISM: Homo sapiens
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184       gaaaggaaat a                                                    11
186 <210> SEQ ID NO: 7
187 <211> LENGTH: 11
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 7
191       gataggaagt a                                                    11
193 <210> SEQ ID NO: 8
194 <211> LENGTH: 11
195 <212> TYPE: DNA
196 <213> ORGANISM: Mus musculus
197 <400> SEQUENCE: 8
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201 <211> LENGTH: 11
202 <212> TYPE: DNA
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207 <210> SEQ ID NO: 10
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209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 10
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214 <210> SEQ ID NO: 11
215 <211> LENGTH: 11
216 <212> TYPE: DNA
217 <213> ORGANISM: Mus musculus
218 <400> SEQUENCE: 11
219 tacaggatat a 11
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223 <212> TYPE: DNA
224 <213> ORGANISM: Rattus norvegicus
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231 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <221> NAME/KEY: SITE
234 <222> LOCATION: (1)
235 <223> OTHER INFORMATION: The amino acid at this position can be isoleucine,
236 valine, or leucine.
237 <220> FEATURE:
238 <221> NAME/KEY: SITE
239 <222> LOCATION: (2)
240 <223> OTHER INFORMATION: The amino acid at this position can be glutamine,
241 tyrosine, or threonine.
242 <220> FEATURE:
243 <221> NAME/KEY: SITE
244 <222> LOCATION: (5)
245 <223> OTHER INFORMATION: The amino acid at this position can be glutamic
246 acid or glutamine.
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
249 <400> SEQUENCE: 13
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251 1 5
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 7
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY DATE: 01/17/2002
PATENT APPLICATION: **US/10/027,859** TIME: 17:43:32

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Output Set: **N:\CRF3\01172002\J027859.raw**

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L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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